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Margaret Wamweru Kamau ✕



```
1  /*facts*/
2  /*Gen 1*/
3  parent(john,francis).
4  parent(john,abel).
5  parent(mary,francis).
6  parent(mary,abel).
7
8  /*Gen 2*/
9  parent(francis,peter).
10 parent(francis,apollo).
11 parent(pearl,peter).
12 parent(pearl,apollo).
13
14 parent(abel,mark).
15 parent(abel,eddah).
16 parent(cathy,mark).
17 parent(cathy,eddah).
18
19 /*Gen 3*/
20 parent(peter,maggie).
21 parent(peter,evans).
22 parent(nancy,maggie).
23 parent(nancy,evans).
24
```



```
25 parent(mark,alicia).
26 parent(mark,jasmine).
27 parent(ivy,alicia).
28 parent(ivy,jasmine).
29
30 /*Gender*/
31 male(john).
32 male(francis).
33 male(abel).
34 male(peter).
35 male(mark).
36 male(evans).
37 male(apollo).
38
39 female(mary).
40 female(pearl).
41 female(cathy).
42 female(nancy).
43 female(ivy).
44 female(eddah).
45 female(maggie).
46 female(alicia).
47 female(jasmine).
48
```



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```
33 male(abel).
34 male(peter).
35 male(mark).
36 male(evans).
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39 female(mary).
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42 female(nancy).
43 female(ivy).
44 female(eddah).
45 female(maggie).
46 female(alicia).
47 female(jasmine).
48
49 /*Rules*/
50 father(F,C):-parent(F,C),male(F).
51
52 mother(M,C):-parent(M,C),female(M).
53
54 is_sibling(X,Y):-parent(P,X),parent(P,Y),X \= Y, X @< Y.
55
56
57
```

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Margaret Wamweru Kamau

```

33 male(abel).
34 male(peter).
35 male(mark).
36 male(evans).
37 male(apollo).
38
39 female(mary).
40 female(pearl).
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49 /*Rules*/
50 father(F,C):-parent(F,C),male(F).
51
52 mother(M,C):-parent(M,C),female(M).
53
54 is_sibling(X,Y):-parent(P,X),parent(P,Y),X \= Y, X @< Y.
55
56
57

```

is_sibling(X,Y).

X = abel,
Y = francis
X = abel,
Y = francis
X = apollo,
Y = peter
X = apollo,
Y = peter
X = eddah,
Y = mark
X = eddah,
Y = mark
X = evans,
Y = maggie
X = evans,
Y = maggie
Y = alicia

?- is_sibling(X,Y).

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Margaret Wamweru Kamau

```

33 male(abel).
34 male(peter).
35 male(mark).
36 male(evans).
37 male(apollo).
38
39 female(mary).
40 female(pearl).
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53
54 is_sibling(X,Y):-parent(P,X),parent(P,Y),X \= Y, X @< Y.
55
56

```

X = abel,
Y = francis
X = apollo,
Y = peter
X = apollo,
Y = peter
X = eddah,
Y = mark
X = eddah,
Y = mark
X = evans,
Y = maggie
X = evans,
Y = maggie
X = alicia,
Y = jasmine
X = alicia,
Y = jasmine

?- is_sibling(X,Y).

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Margaret Wamweru Kamau

33 male(abel).

34 male(peter).

35 male(mark).

36 male(evans).

37 male(apollo).

38

39 female(mary).

40 female(pearl).

41 female(cathy).

42 female(nancy).

43 female(ivy).

44 female(eddah).

45 female(maggie).

46 female(alicia).

47 female(jasmine).

48

49 /*Rules*/

50 father(F,C):-parent(F,C),male(F).

51

52 mother(M,C):-parent(M,C),female(M).

53

54 is_sibling(X,Y):-parent(P,X),parent(P,Y),X \= Y, X @< Y.

55

mother(M,C).

C = francis,

M = mary

C = abel,

M = mary

C = peter,

M = pearl

C = apollo,

M = pearl

C = mark,

M = cathy

C = eddah,

M = cathy

C = maggie,

M = nancy

C = evans,

M = nancy

C = alicia

?- mother(M,C).

C = cathy,

M = eddah,

M = cathy

C = maggie,

M = nancy

C = evans,

M = nancy

C = alicia,

M = ivy

C = jasmine,

M = ivy

?- mother(M,C).

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Margaret Wamweru Kamau

33

male(abel).

34

male(peter).

35

male(mark).

36

male(evans).

37

male(apollo).

38

39

female(mary).

40

female(pearl).

41

female(cathy).

42

female(nancy).

43

female(ivy).

44

female(eddah).

45

female(maggie).

46

female(alicia).

47

female(jasmine).

48

49

/*Rules*/

50

father(F,C):-parent(F,C),male(F).

51

52

mother(M,C):-parent(M,C),female(M).

53

54

is_sibling(X,Y):-parent(P,X),parent(P,Y),X \= Y, X @< Y.

55

56

57

father(F,C).

C = francis,

F = john

C = abel,

F = john

C = peter,

F = francis

C = apollo,

F = francis

C = mark,

F = abel

C = eddah,

F = abel

C = maggie,

F = peter

C = evans,

F = peter

C = alicia

?- father(F,C).

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☐ table results

Run!

45

female(maggie).

46

female(alicia).

47

female(jasmine).

48

49

/*Rules*/

50

father(F,C):-parent(F,C),male(F).

51

52

mother(M,C):-parent(M,C),female(M).

53

54

is_sibling(X,Y):-parent(P,X),parent(P,Y),X \= Y, X @< Y.

55

56

57

F = peter

C = alicia,

F = mark

C = jasmine,

F = mark

?- father(F,C).

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☐ table results

Run!